

Abstract

The present invention relates to novel, non-peptidic small organic compounds having an affinity for cyclophilin (CyP)-type immunophilin proteins. In the compounds of this invention, at least two carbo- or heterocyclic groups are attached to a central saturated, partially saturated, or aromatic 5-6 membered carbocyclic ring by a combination of straight or branched linker chains. The invention further relates to pharmaceutical compositions comprising one or more of the said compounds, and to the uses of these compounds and compositions for binding CyP-type proteins, inhibiting their peptidyl-prolyl isomerase activity, and for research, development, and therapeutic applications in a variety of medical disorders, such as neurological disorders, hair loss disorders, ischemic disorders, and disorders caused by viral or protozoan infection.